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NOTICE OF ALLOWANCE AND FEE(S) DUE

21967

7590

04/30/2010

HUNTON & WILLIAMS LLP INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. SUITE 1200 WASHINGTON, DC 20006-1109

| EXAMINER | | | | |
|-----------------------|--------------|--|--|--|
| DIBRINO, MARIANNE NMN | | | | |
| ART UNIT | PAPER NUMBER | | | |
| 1644 | | | | |

DATE MAILED: 04/30/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|-------------------------|---------------------|------------------|
| 10/715.417 | 11/19/2003 | Eivind Per Thor Straten | 60820.000004 | 5850 |

TITLE OF INVENTION: SURVIVIN-DERIVED PEPTIDES AND USE THEREOF

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 07/30/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for

maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 21967 7590 04/30/2010 Certificate of Mailing or Transmission **HUNTON & WILLIAMS LLP** I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W. **SUITE 1200** (Depositor's name WASHINGTON, DC 20006-1109 (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/715,417 11/19/2003 Eivind Per Thor Straten 60820.000004 5850 TITLE OF INVENTION: SURVIVIN-DERIVED PEPTIDES AND USE THEREOF APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 07/30/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS DIBRINO, MARIANNE NMN 1644 424-185100 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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| HUNTON & WILLIAMS LLP | | | DIBRINO, MARIANNE NMN | |
| INTELLECTUAL PROPERTY DEPARTMENT | | | ART UNIT | PAPER NUMBER |
| 1900 K STREET, SUITE 1200 | N.W. | | 1644 DATE MAILED: 04/30/201 | 0 |
| WASHINGTON, I | DC 20006-1109 | | DATE MAILED. 04/30/201 | O |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 295 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 295 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

| | Application No. | Applicant(s) | |
|--|---|--|-----|
| | | | |
| Notice of Allowability | 10/715,417 Examiner | STRATEN ET AL. Art Unit | |
| _ | MARIANNE DIRRING | 1044 | |
| | MARIANNE DIBRINO | 1644 | |
| The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313 | (OR REMAINS) CLOSED in or other appropriate communication is sufficient to the communication of the communication | this application. If not included nication will be mailed in due course. T | |
| 1. X This communication is responsive to Applicant's amendme | ent after final rejection filed 3/ | <u> 29/10</u> . | |
| 2. ☑ The allowed claim(s) is/are <u>1 and 25</u> . | | | |
| 3. Acknowledgment is made of a claim for foreign priority units a) All b) Some* c) None of the: 1. Certified copies of the priority documents have | | r (f). | |
| 2. ☐ Certified copies of the priority documents have | | ı No | |
| 3. ☐ Copies of the certified copies of the priority do | • • | | the |
| International Bureau (PCT Rule 17.2(a)). | damente nave been received | in the national stage application from | |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | a reply complying with the requirement | s |
| 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | F |
| 5. CORRECTED DRAWINGS (as "replacement sheets") mus | st be submitted. | | |
| (a) including changes required by the Notice of Draftspers | son's Patent Drawing Review | (PTO-948) attached | |
| 1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date | | | |
| (b) ☐ including changes required by the attached Examiner'Paper No./Mail Date | s Amendment / Comment or | n the Office action of | |
| Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t | | | |
| DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT | | | |
| | | | |
| Attachment(s) | 5 🗖 Nation of las | annal Datant Application | |
| Notice of References Cited (PTO-892) Dotice of Draftperson's Patent Drawing Review (PTO-948) | | ormal Patent Application mmary (PTO-413), | |
| Information Disclosure Statements (PTO/SB/08), | Paper No./N | Mail Date Amendment/Comment | |
| Paper No./Mail Date 1/26/10 | _ | | |
| Examiner's Comment Regarding Requirement for Deposit of Biological Material | <u>—</u> | Statement of Reasons for Allowance | |
| | 9. ☑ Other <u>Detail</u> | | |
| | /Ram R. Shukla Supervisory Pate | / ent Examiner, Art Unit 1644 | |
| | | | |

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Art Unit: 1644

DETAILED ACTION

1. Applicant's response filed 3/29/10 is acknowledged and has been entered.

- 2. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 38-40 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement.
- 3. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 33-35 under 35 U.S.C. 112, first paragraph, scope of enablement.
- 4. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claim 24 under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement.
- 5. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 23, 24, 34 and 35 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention.
- 6. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 36 and 40 under 35 U.S.C. 102(b) as being anticipated by Andersen *et al* (Cancer Res. 2/2001, 61: 869-872, IDS reference) as evidenced by Andersen *et al* (Cancer Res. 2001, 61: 5964-5968, IDS reference).
- 7. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 36 and 40 under 35 U.S.C. 102(b) as being anticipated by Andersen *et al* (Cancer Res. 2001, 61: 5964-5968, IDS reference).
- 8. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 34-36 and 40 under 35 U.S.C. 103(a) as being obvious over Andersen *et al* (Cancer Res. 2001, 61: 5964-5968, IDS reference) in view of U.S. Patent No. 6,572,864 (of record).
- 9. Applicant's amendment filed 3/29/10 has overcome the prior rejection of record of claims 21, 23, 34-36 and 40 under 35 U.S.C. 103(a) as being obvious over Andersen *et al* (Cancer Res. 2/2001, 61: 869-872, IDS reference) in view of U.S. Patent No. 6,572,864 (of record).
- 10. Applicant's amendment filed 3/29/10 has overcome the prior objection of record of claim 24.

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REASONS FOR ALLOWANCE

11. The following is an Examiner's statement of reasons for allowance:

- a. Claims 1 and 25 are pending and are allowable.
- b. The terminal disclaimer filed 8/17/09 over application serial no. 10/354,090 is acceptable.
- c. The terminal disclaimer filed 8/17/09 over application serial no. 10/543,755 is acceptable.
- d. The claimed isolated MHC class I-restricted epitope peptide derived from survivin and composition thereof, said epitope peptide comprising SEQ ID NO: 5, wherein the epitope peptide has a C_{50} value, defined as the concentration of the peptide required for half-maximal binding to HLA-A2, which is at most 20 uM , is not taught or suggested by the prior art.
- e. Any comments considered necessary by Applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 12. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Marianne DiBrino whose telephone number is 571-272-0842. The Examiner can normally be reached on Monday, Tuesday, Thursday and Friday.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Ram Shukla, can be reached on 571-272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Marianne DiBrino, Ph.D.
Patent Examiner
Group 1640/Technology Center 1600

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Art Unit: 1644

/Ram R. Shukla/ Supervisory Patent Examiner, Art Unit 1644